

RAW SEQUENCE LISTING

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Application Serial Number: 10/759, 125
Source: TFW16
Date Processed by STIC: 11/29/2005

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IFW16

RAW SEQUENCE LISTING

DATE: 11/29/2005

PATENT APPLICATION: US/10/759,125

TIME: 10:08:48

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3 <110> APPLICANT: ANTONSSON, PER
 4 KRISTENSSON, KARIN
 5 WALLEN-OHMAN, MARIE
 6 DILLNER, JOAKIM
 7 LANDO, PETER
 9 <120> TITLE OF INVENTION: VIRUS-LIKE PARTICLES DEVOID OF HPV 16 TYPE-SPECIFIC
 10 ANTIBODY EPITOPES AS CARRIERS OF PEPTIDES FOR
 11 INTRODUCTION INTO CELLS
 13 <130> FILE REFERENCE: 003301-106
 15 <140> CURRENT APPLICATION NUMBER: 10/759,125
 16 <141> CURRENT FILING DATE: 2004-01-20
 18 <150> PRIOR APPLICATION NUMBER: 10/048,016
 19 <151> PRIOR FILING DATE: 2002-01-28
 21 <150> PRIOR APPLICATION NUMBER: PCT/SE00/01808
 22 <151> PRIOR FILING DATE: 2000-09-19
 24 <150> PRIOR APPLICATION NUMBER: SE 9903534-7
 25 <151> PRIOR FILING DATE: 1999-09-30
 27 <160> NUMBER OF SEQ ID NOS: 1
 29 <170> SOFTWARE: PatentIn Ver. 3.3
 31 <210> SEQ ID NO: 1
 32 <211> LENGTH: 485
 33 <212> TYPE: PRT
 34 <213> ORGANISM: Human papillomavirus
 36 <400> SEQUENCE: 1
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 38 1 5 10 15
 40 Pro Val Ser Lys Val Val Ser Thr Asp Glu Tyr Val Ala Arg Thr Asn
 41 20 25 30
 43 Ile Tyr Tyr His Ala Gly Thr Ser Arg Leu Leu Ala Val Gly His Pro
 44 35 40 45
 46 Tyr Phe Pro Ile Lys Lys Pro Asn Asn Asn Lys Ile Leu Val Pro Lys
 47 50 55 60
 49 Val Ser Gly Leu Gln Tyr Arg Val Phe Arg Ile His Leu Pro Asp Pro
 50 65 70 75 80
 52 Asn Lys Phe Gly Phe Pro Asp Thr Ser Phe Tyr Asn Pro Asp Thr Gln
 53 85 90 95
 55 Arg Leu Val Trp Ala Cys Val Gly Val Glu Val Gly Arg Gly Gln Pro
 56 100 105 110
 58 Leu Gly Val Gly Ile Ser Gly His Pro Leu Leu Asn Lys Leu Asp Asp
 59 115 120 125
 61 Thr Glu Asn Ala Ser Ala Tyr Ala Ala Asn Ala Gly Val Asp Asn Arg
 62 130 135 140
 64 Glu Cys Ile Ser Met Asp Tyr Lys Gln Thr Gln Leu Cys Leu Ile Gly

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65 145                      150                      155                      160
67 Cys Lys Pro Pro Ile Gly Glu His Trp Gly Lys Gly Ser Pro Cys Thr
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70 Asn Val Ala Val Asn Pro Gly Asp Cys Pro Pro Leu Glu Leu Ile Asn
71                      180                      185                      190
73 Thr Val Ile Gln Asp Gly Asp Met Val Asp Thr Gly Phe Gly Ala Met
74                      195                      200                      205
76 Asp Phe Thr Thr Leu Gln Ala Asn Lys Ser Glu Val Pro Leu Asp Ile
77                      210                      215                      220
79 Cys Thr Ser Ile Cys Lys Tyr Pro Asp Tyr Ile Lys Met Val Ser Glu
80 225                      230                      235                      240
82 Pro Tyr Gly Asp Ser Leu Phe Phe Tyr Leu Arg Arg Glu Gln Met Phe
83                      245                      250                      255
85 Val Arg His Leu Phe Asn Arg Ala Gly Ala Val Gly Glu Asn Val Pro
86                      260                      265                      270
88 Asp Asp Leu Tyr Ile Lys Gly Ser Gly Ser Thr Ala Asn Leu Ala Ser
89                      275                      280                      285
91 Ser Asn Tyr Phe Pro Thr Pro Ser Gly Ser Met Val Thr Ser Asp Ala
92                      290                      295                      300
94 Gln Ile Phe Asn Lys Pro Tyr Trp Leu Gln Arg Ala Gln Gly His Asn
95 305                      310                      315                      320
97 Asn Gly Ile Cys Trp Gly Asn Gln Leu Phe Val Thr Val Val Asp Thr
98                      325                      330                      335
100 Thr Arg Ser Thr Asn Met Ser Leu Cys Ala Ala Ile Ser Thr Ser Glu
101                      340                      345                      350
103 Thr Thr Tyr Lys Asn Thr Asn Phe Lys Glu Tyr Leu Arg His Gly Glu
104                      355                      360                      365
106 Glu Tyr Asp Leu Gln Phe Ile Phe Gln Leu Cys Lys Ile Thr Leu Thr
107                      370                      375                      380
109 Ala Asp Val Met Thr Tyr Ile His Ser Met Asn Ser Thr Ile Leu Glu
110 385                      390                      395                      400
112 Asp Trp Asn Phe Gly Leu Gln Pro Pro Pro Gly Gly Thr Leu Glu Asp
113                      405                      410                      415
115 Thr Tyr Arg Phe Val Thr Ser Gln Ala Ile Ala Cys Gln Lys His Thr
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118 Pro Pro Ala Pro Lys Glu Asp Pro Leu Lys Lys Tyr Thr Phe Trp Glu
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121 Val Asn Leu Lys Glu Lys Phe Ser Ala Asp Leu Asp Gln Phe Pro Leu
122                      450                      455                      460
124 Gly Arg Lys Phe Leu Leu Gln Ala Gly Leu Lys Ala Lys Pro Lys Phe
125 465                      470                      475                      480
127 Thr Leu Gly Lys Arg
128                      485

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VERIFICATION SUMMARY

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